Patent Abstracts of Japan

PUBLICATION NUMBER

57027602

PUBLICATION DATE

15-02-82

APPLICATION DATE

18-07-80

APPLICATION NUMBER

55097516

APPLICANT: HITACHI LTD;

INVENTOR: YATSUNO KOMEI;

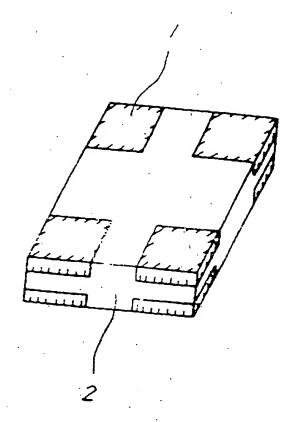
INT.CL:

B23B 27/14 B22F 7/06 B23P 15/28

C04B 37/02

TITLE

: CUTTING TOOL



ABSTRACT: PURPOSE: To obtain a cutting tool excellent in oxiidation resistance, hardness and abrasion resistance by using an antiabrasive material in the cutting tip of the antiabrasive material, such as sintered silundum, or extra-hard alloy.

> CONSTITUTION: Beryllium oxide powder of mean particle size no larger than 10µm is added at a rate of 0.05-20wt% to silundum powder of mean particle size no larger than 10μm; they are mixed and formed into a body under a pressure of 1,000kg/cm². Thus molded body is placed in a graphaite die and undergoes hot press processing in vacuum to give a sintered body. This sintered silundum body is processed into a certain form 1 and metallized onto a cutting tip 2 made from extra-hard alloy with the aid of Ni-W powder. Thus an excellent cutting tool is provided.

COPYRIGHT: (C)1982,JPO&Japio